

**FRACTURED PARTICLES  
IN  
COARSE AGGREGATES  
ASTM D 5821**

**APPARATUS**

- ☐ Sieves

**PROCEDURE**

- ☐ Dried sample sieved over No. 4 sieve to obtain sample
- ☐ Weight of sample at least large enough so that largest particle is not more than 1% of sample weight or at least as large as indicated below, whichever is smaller

<u>Nominal Maximum Aggregate Size</u>	<u>Minimum Weight of Sample (g)</u>
1 1/2 in.	7500
1 in.	3000
3/4 in.	1500
1/2 in.	500
3/8 in.	200

- ☐ Aggregate with nominal maximum size of 3/4 in. or larger separated on 3/8 in. sieve and weighted average calculated (optional)
- ☐ Sample washed over No. 4 sieve, dried, and weight recorded
- ☐ Particles with at least one fractured face separated, and weight recorded
- ☐\* Particles with at least two fractured faces separated, and weight recorded
- ☐ Particles not meeting fractured particle criteria separated, and weight recorded

\* Only if specification requirement for two faces

[ ] Fractured particles is calculated correctly to 0.1% as follows:

$$\text{Fractured Particles, \%} = \frac{F}{F+N} \times 100$$

where:

F = weight of fractured particles with at least specified number of fractured faces

N = weight of particles in uncrushed category not meeting fractured particle criteria

NA - Not Applicable

X - Requires Corrective Action

√ - Satisfactory

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Acceptance Technician

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INDOT

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Date

Comments \_\_\_\_\_  
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